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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/621,440	07/18/2003	Kenichi Kawaguchi	60188-536	1018
McDermott, W	7590 08/16/2007	EXAMINER		
600 13th Street	, N.W.	PAN, DANIEL H		
Washington, D	C 20005-3096		ART UNIT	PAPER NUMBER
			2183	
			MAIL DATE	DELIVERY MODE
			08/16/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

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	-	Applica	tion No.	Applicant(s)			
Office Action Summary		10/621,	440	KAWAGUCHI, KE	ENICHI		
		Examin	er .	Art Unit			
		_, Daniel F		2183			
Period fo	 The MAILING DATE of this community 	nication appears on t	he cover sheet with	the correspondence ac	Idress –		
WHIC - Exter after - If NO - Failu Any r	ORTENED STATUTORY PERIOD F CHEVER IS LONGER, FROM THE M Isions of time may be available under the provisions SIX (6) MONTHS from the mailing date of this common period for reply is specified above, the maximum street to reply within the set or extended period for reply eply received by the Office later than three months and patent term adjustment. See 37 CFR 1.704(b).	AAILING DATE OF of 37 CFR 1.136(a). In no nunication. latutory period will apply and will by statute, cause the a	THIS COMMUNICA event, however, may a rep will expire SIX (6) MONTI polication to become ABA	ATION. Ily be timely filed HS from the mailing date of this of NDONED (35 U.S.C. § 133).			
Status							
1)⊠	Responsive to communication(s) file	ed on <i>21 Mav 2007</i> .					
,	·	2b) ☐ This action is	non-final.				
•—	Since this application is in condition			rs, prosecution as to the	e merits is		
٠,۵	closed in accordance with the pract						
Dispositi	on of Claims						
4)⊠	Claim(s) 7,8 (claims1-6,9,10 have	been canceled) is/a	re pending in the a	application.			
•	4a) Of the above claim(s) is/a						
5)	Claim(s) is/are allowed.						
6)⊠	Claim(s) 7 and 8 is/are rejected.						
7)	Claim(s) is/are objected to.						
8)□	Claim(s) are subject to restri	ction and/or election	requirement.				
Applicati	on Papers						
9)[The specification is objected to by the	ne Examiner.					
10)🛛	The drawing(s) filed on <u>18 July 2003</u>	is/are: a)⊠ accep	ted or b)□ objecte	ed to by the Examiner.			
	Applicant may not request that any object	ection to the drawing(s) be held in abeyand	e. See 37 CFR 1.85(a).			
	Replacement drawing sheet(s) including	g the correction is requ	uired if the drawing(s	s) is objected to. See 37 C	FR 1.121(d).		
11)	The oath or declaration is objected t	o by the Examiner.	Note the attached	Office Action or form P	TO-152.		
Priority (ınder 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:							
	1. Certified copies of the priority	documents have be	een received.		•		
	2. Certified copies of the priority	documents have be	een received in Ap	plication No			
	3. Copies of the certified copies of the priority documents have been received in this National Stage						
	application from the Internation	•					
* See the attached detailed Office action for a list of the certified copies not received.							
Attachmen	t(s)				•		
1) Notice of References Cited (PTO-892) 4) Interview Summary (I							
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 5) Notice of Informal Patent Applic							
Paper No(s)/Mail Date 6) Other:							

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1. Claims 7,8 remain for examination. Clams 1-6,9,10 have been canceled. T.D. on 10/24/06 has been received.

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 2. Claim 7 is rejected under 35 U.S.C. 102(b) as being anticipated by Phillips et al. (5,426,743).
- 3. As to the newly amended "configured to convert", see discussion in response to applicant's remarks section.

4.

- 5. Claims 7,8 are rejected under-35 U.S.C. 103(a) as being unpatentable over Eikemeyer et al. (5,355,460) in view of Holmann et al. (5,815,698).
- 6. The rejections are maintained and incorporated by reference the last office action on 02/21/07.
- 7. The response by applicant on 05/21/07 has been fully considered but is not persuasive.
- 8. In the remarks, applicant argued that:
- a) Figs.23,25-27 showed, for example, instruction asl 2, R2 can be converted to add R2, R2, and Philip is completely silent as to a conversion of one of instructions to another equivalent instructions;

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b) Holman's "conversion" was directed to rearranging the instructions in two columns and inserting a NOP in one column where the two instructions can not executed in parallel; none of the instructions were converted into an equivalent instructions; c) Philip does not disclose the first and second instructions originally designated the same ALU.

- 9. As to a) upon careful reading of applicant's teaching in the specification (see Pages 30-31). There is nor teaching of conversion. Instead, applicant taught "replacing " and "exchanging" the instruction for parallelism purpose. Therefore, in view of specification, the claimed "convert" is interpreted as "replacing" or "exchange", or the like (e.g. rearrange) for parallel performance. Philip did taught rearrange of instruction sequence designated at least a second execution unit (see how the second instruction of the pair being executed in an identical machine cycle in parallel with the first instruction by a second ALU, 3-1 ALU, in col.8, lines 55-67, co1.9, lines 1-20). Although applicant stated that the instruction, asl 2, R2, was converted to add R2, R2, no specific details of converting the instruction asl 2, R2 to add R2, R2 can be found in either the specification or the claim. Examiner would like to point out that claim has to be supported by specification, and it may raise a potential "112" 1st Paragraph issue. If applicant means that the "conversion: was a real conversion, applicant is kindly invited to point a specific portion that teach the real conversions. As to the current cited figures by applicant, examiner could not find any conversion except the "replacing" and "exchanging" of the instructions.
- 10. As to b), see discussions on "conversion" above. Holman is used because it showed clear rearrangement of the instructions, (i.e. the "conversion"). Reasons of obviousness were already given in page 4 of last office action,. Therefore, it will not be repeated herein.
- 11. As to c), Philip clearly taught assigned first instruction (Add) to ALU 63 and assigned a second instruction Compare to another ALU (LAU 64) (see col.17, lines 40-54). The Add and Compare were designated for the same ALU 63 for performing

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arithmetic and logic operations (see col.16, lines 17-20). And , later the second instruction (Compare) was assigned to another ALU 64 (see col.17, lines 40-54) for parallel performance.

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.